

Eulaliopsis duthiei (Poaceae)- a new species from India¹

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Howrah 3
(With a text-figure)

The genus *Eulaliopsis* Honda (Poaceae) was till recently known to be represented in India by one species *E. binata* (Retz.) C. E. Hubbard and another species *E. sykesii* Bor in kew Bull. 1957, 412 (1958), was known from Nepal. One more species has been found, collected by J. F. Duthie (No. 14 date 11-vi-1883) from Ganga Valley (Tehri-Garhwal) and is named and described here.

Eulaliopsis duthiei sp. nov.

A *E. binata* (Retz.) Hubbard praecipue differt culmis simplicibus, foliis Parvioribus, 7-14 cm longis, spiculis sessilibus majoribusque, superioris lemmatis arista longiore, 6-8 mm, flosculo inferiore sterili.

Herba perennis. Culmi simplices, caespitosi, basi lanati, 30-33 cm longi, 1 mm diam., erecti, non-ramosi, glabri, 4-5 nodi. *Folia* 4-15 cm longa, 1-1.5 mm lata, angustata in acumina subpungentia, concava, basi obtusa, fimbriata, vaginis glabris, *ligula* pilorum brevium. *Racemi* 2, terminales, graciles; *spicula sessilis* 4-4.5 mm longa, callus pilosus; *inferior gluma involucralis* 3.5 mm × 1 mm, elliptica-oblonga, chartacea, 2-3-dentata, 5 nerva, infra ciliata pilis longis; *superior gluma involucralis* 4.5 mm × 1.3 mm, membranacea, ovatolanceolata, 2-dentata, 3-5 nerve, *arista* brevissima subterminali 0.7 mm longa. *Inferior gluma floralis* cassa, 3 mm × 1.5 mm, oblongo-obtusa, irregulariter 2-dentata, hyalina, nervo solitario ad medium, *Palea* nulla; *superior gluma floralis* hermaphrodita, 3.5 mm × 1 mm, linearis, hyalina, 2-dentata, *aristata*, arista 6-8 mm longa, *Palea* 1.5 mm longa, apice dense ciliata; *stamina* 2 *anthera* 2.5 mm longa, *filamentum* brevissimum; *ovarium* oblongum, *styli* longi, *stigmata*-2.

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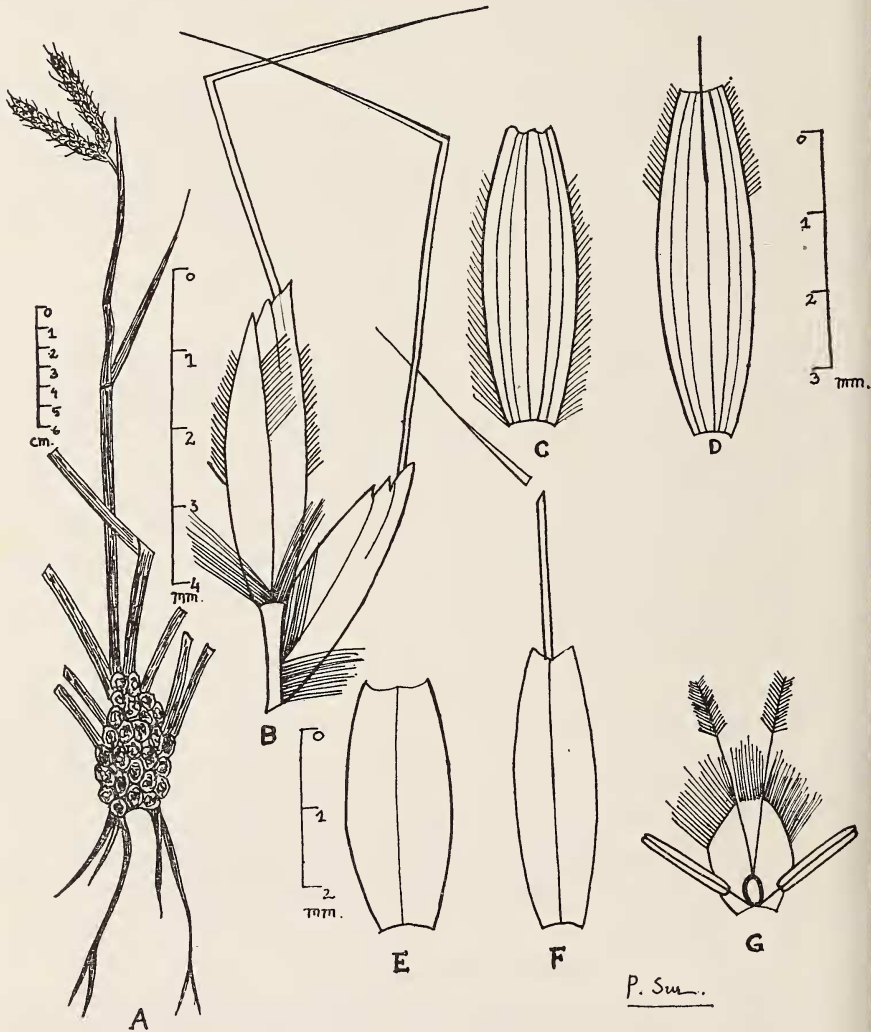
This species differs from *Eulaliopsis binata* (Retz.) Hubbard in the

¹ Accepted September 1974.

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simple culms, shorter leaves; shorter sessile spikelet; shorter awn of upper glume; shorter awn of upper lemma and sterile lower floret.

Herb—Perennial. *Culms*: simple; tufted; woolly at the base, 30-33 cm × 1 mm erect, unbranched, glabrous; 4-5 noded. *Leaves*: 4-15 cm × 1-1.5 mm; tapering into a sub-pungent acumen; concave; base obtuse; fimbriate; sheath glabrous, ligule of short hairs. *Racemes*: 2; terminal; slender, *Sessile spikelet*; 4-4.5 mm long, callus hairy. *Lower involucrel glume*: 3.5 mm × 1 mm; elliptic oblong; chartaceous; 2-3 toothed; 5-nerved; lower part of the glume ciliate with long hairs. *Upper involu-*



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A. Habit; B. spikelets; C. lower involucrel glume; D. upper involucrel glume; E. lower floral glume; F. upper floral glume; G. Andro-gynoecium with palea.

cral glume: 4.5 mm × 1.3 mm; membranous ovate lanceolate 2-dentate; 3-5 nerved; *awn* very short, subterminal, 0.7 mm long, *lower floral glume*: empty; 3 mm × 1.5 mm; oblong; obtuse; irregularly—2-dentate; hyaline; one nerve at the middle. *Palea*—0. *Upper floral glume*: Hermaphrodite: 3.5 mm × 1 mm; linear; hyaline; 2-dentate; awned. *Awn*: 6-8 mm long. *Palea*: 1.5 mm long; densely ciliate at the top. *Stamens*: 2. *Anther* 2.5 mm long; filament very short. *Ovary*: oblong. *Style*: long. *Stigmas* 2.

Holotype: India, Uttar Pradesh, Ganga Valley (Tehri-Garhwal) 11-vi-1883, J. F. Duthie-14 (deposited in the Central National Herbarium, Calcutta).

KEY TO THE SPECIES OF *Eulaliopsis*

1. Culms branched, leaves 30-60 cm × 6.5-7.5 mm; sessile spikelet 3.5 mm long; awn of upper glume 1-1.5 mm long; awn of the upper lemma 3-4.5 mm long. *binata*
1. Culms simple; leaves up to 20 cm × 2 mm; spikelet longer; awn of upper lemma longer.
 2. Leaves 15-20 cm × 2 mm; sessile spikelets 5 mm long, awn of upper glume 8-8.5 mm long; awn of upper lemma 18-20 mm long. *sykesii*
 2. Leaves 7-14 cm × 1.5 mm; sessile spikelets 4-4.5 mm long; awn of upper glume 0.7 mm long; awn of upper lemma 6-8 mm long. *duthiei*

ACKNOWLEDGEMENTS

I am grateful to the Director, Botanical Survey of India for facilities; to Deputy Director and Keeper, Central National Herbarium, and Dr. S. K. Jain, Deputy Director, B.S.I., Eastern Circle for their kind encouragement; to Dr. R. B. Mazumder, Systematic Botanist for his valuable suggestions and to Dr. N. C. Muzumder for latin diagnosis of the species.